DENSITRON CORPORATION

D.U.C.K.™ * — THE IBM* PC PLATFORM FOR ALL FLAT PANEL APPLICATIONS
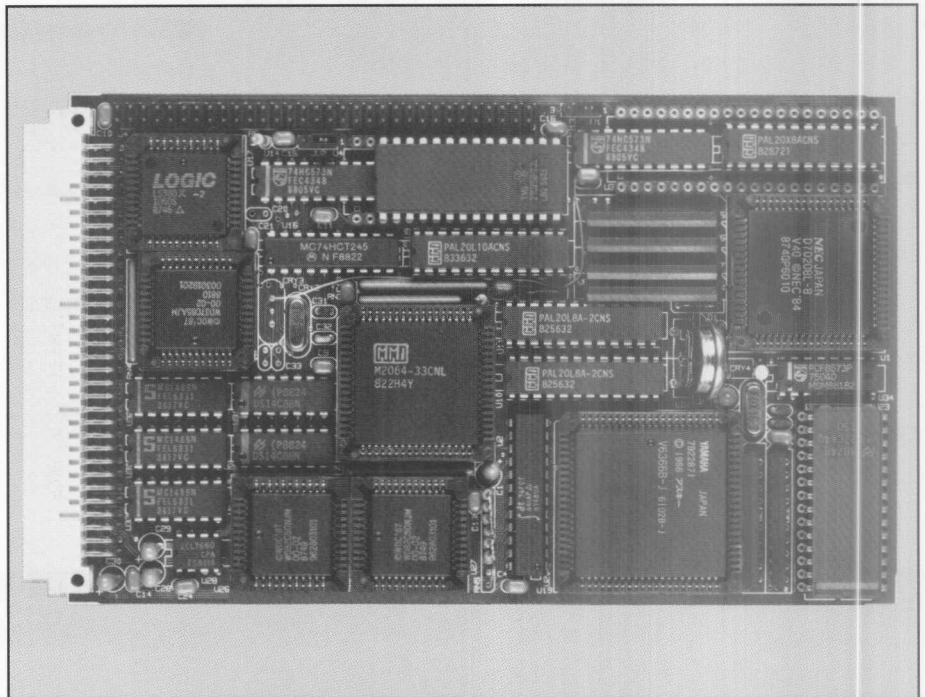
The D.U.C.K. is a low power, high performance IBM XT compatible single board computer with a direct interface to Densitron's large graphic flat panels. The D.U.C.K. is compatible with the wide range of Densitron's 200 × 640 and 400 × 640 LCD and plasma panels. This product offers all the functionality of a standard IBM PC on a compact board size of 6″ × 4″.

The board combined with a Densitron display offers a complete hardware platform for any PC-based application. The video interface on the board provides up to 16 levels of gray-scaling capability for either LCD or plasma panels. The D.U.C.K. is compatible with all existing CGA, MDA, HGA and MS-DOS software.

The D.U.C.K. incorporates a 96-pin Eurocard DIN connector which offers an easy interface to industry standard peripheral devices (e.g. keyboard, disk drive etc.). The D.U.C.K. also provides up to 4 IBM PC bus expansion slots via a standard 64-way ribbon cable.

FEATURES

- Direct video interface to Densitron LCD and plasma panels
- Low power consumption (3W typical)
- 256Kbyte user DRAM (expandable up to 768Kbyte)
- On-board BIOS ROM with optional user EPROM up to 112Kbytes
- SCSI XT hard disk interface
- 5¼″ or 3½″ floppy disk interface
- 1 asynchronous RS232 port (2 additional ports available)
- 3 DMA channels
- 3 16-bit timers and a real time clock
- Standard IBM keyboard port
- 8-bit parallel printer port
- 8 levels of interrupt

ENVIRONMENTAL SPECIFICATIONS

- Voltage: +5VDC
- Power: 3W (typical)
- Operating temperature: 0°C to 55°C

APPLICATION BENEFITS

- Decrease time to market your PC-based product
- Minimize all system hardware development
- Reduce software development effort
- Offers a portable PC platform with flat panel display
- Use in industrial, process and instrumentation control applications

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*D.U.C.K - Display Under Computer Kontrol
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SPECIFICATIONS

HARDWARE DESCRIPTION

The D.U.C.K. is based around the powerful NEC 8MHz V-40 microprocessor. The board employs intensive ASIC and surface mount technology to minimize the overall chip count and surface area of the board. The main memory consists of six 256K × 4 CMOS DRAMs in a ZIP package. The D.U.C.K. has an on-board BIOS ROM with an expansion EPROM socket capable of providing up to 128K of user software. The board uses the Yamaha 6366 video controller chip to provide an interface to LCD and plasma flat panel displays. I/O expansion is achieved via the 96-pin Eurocard connector which also provides a PC bus interface.

D.U.C.K. ACCESSORY PRODUCTS

DTB Transition Board: mates with the 96-pin Eurocard connector on the D.U.C.K. to provide industry standard connectors for all I/O devices. The DTB size is 4″ × 2.75″.

DPB Passive Backplane: allows 64 way ribbon cable to provide the user with 4 IBM PC expansion slots. The DPB also generates the supply voltages required by the PC bus. The DPB size is 4.25″ × 3.5″.

ORDERING INFORMATION

MODEL NO.	OPTIONS						
	FLOPPY	SCSI	COM2	COM1	RTC	VIDEO	AVAILABLE MEMORY
DDK+001	0	0	0	0	0	0	256Kbytes
DDK+057	0	0	1	1	1	0	256Kbytes
DDK+189	1	0	1	1	1	1	448Kbytes
DDK+254	1	1	1	1	1	1	704Kbytes
DDK+190	1	0	1	1	1	1	768Kbytes

All specifications subject to change without notice.